No 3rd and FINAL

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

AEE/YNK SUB. Div
SBR No: 64/17-18
Date: 30/6/17

Division: BBMP / YNK

Sub-Division: Yelahanka Sub – Division.

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional Work Code: 001-16-000023.

Schedule Docket No. Head of Account Est.Cost: 1131.40 Lakhs. B.R.No. :

Name of Work : Comprehensive Development of road and drains in ward No- 1 and 2 in yelahanka Sub division.

Name of Contractor and Full Address: **Sri A Chennareddy, No 01, Bairappa circle, Jambu savari dinne, 8th stage, JP Nagara, Bangalore- 560083.**

Reference to Agreement NoEE(YNK.D)/E-PMT-2/W.O/ 95/2016-17 Date: 19-10-2016.

Certified that the measurements were taken by me on 29/06/17 and recorded of Pages 116465 to 116553 of measurement Book No. 4697/16-17 and that the work is satisfactorily executed.

Contractor Officer-in-charge of work

Certified that the measurement were taken by me on 29/6/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

II Memorandum of Payment

			Amount
1)	Total value of work done or supplies made as per account within	3rd & Final	6874827=00
2)	Deduct amount to be held in reserve being .....percent Rs.....		
3)	" Balance		
4)	Deduct Payment.		
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	IT	137497=00
	b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	VAT	274993=00
		LC	68748=00
		CBF	6875=00
5)	Balance being unpaid value of work done held in reserve	Royalty	71506=00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	T.D	559619=00
7)	Net amount due to or from Contractor unadjustments items.	Net	6315208=00
8)	Advance to Contractor for materials brought to site (as detailed) within.		
9)	Value of Government materials supplied		
	Total amount adjusted -		

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Contractor's Signature

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Stamp

(For use in the Office)
6874827=00
6315208=00
559619=00

Executive Engineer

sl no	Description of work	Unit
1	Removing BS Slab of drain and Stacking	Sqm
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3)	Sqm
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick	Sqm
4	KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	Cum
5	KSRRB M200-13.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20 (Page	Cum
6	KSRRB M200-15.2 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement	Cum
7	Providing and constructing granite / trap / basalt size stone masonry(with available stones) in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum
8	KSRB 5.2-3 Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum
9	1 KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm
10	KSRB 5-14 Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications	Sqm
11	KSRB 4-1.2 Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per	Cum
12	KSRB 4-1.6 , Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,	Cum
13	KSRB 4-1.5 Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM	Cum
14	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20	Cum
15	KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , ncluding attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2	Sqm
16	KSRB 4-6.3 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (Page No 15., I No 4.30 of KPWD S.R 2015-16)	Sqm

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
9797.29	538851	0.00	55.00	0	9797.29	538851	
7999.08	519940	0.00	65.00	0	7999.08	519940	
222.30	133380	0.00	600.00	0	222.30	133380	
10664.76 10701.18	1599714 1599684	1010.19 973.84	150.00	~~151529~~ 146076	11674.95	~~1751243~~ ~~1745760~~	
17.45	7416	0.00	425.00	0	17.45	7416	
0.00	0	0.00	310.00	0	0.00	0	
0.00	0	0.00	2000.00	0	0.00	0	
2.14	7490	0.00	3500.00	0	2.14	7490	
24.00	1920	0.00	80.00	0	24.00	1920	
407.20	325760	0.00	800.00	0	407.20	325760	
573.00	~~2750400~~ 2752848	101.75	4800.00	488400	674.75	3238800	
39.79	190992	0.00	4800.00	0	~~#REF!~~ 39.79	190992	
25.37	139535	0.00	5500.00	0	39.79	139535	
4.88	29280	0.00	6000.00	0	25.37	29280	
51.00	12750	29.76	250.00	7440	34.64	20190	
0.00	0	29.65	350.00	10378	80.65	10378	

Sl no	Description of work	Unit
17	Providing and laying Plain /reinforced cement concrete M20 for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc complete as per approved drawing and design MORTH specification No.1500,1700,2200	Cum
18	KSRB 4.9.2 Providing T M T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT	Tonne
19	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc ,complete as per the direction of engineer in charge- Data rate	Sqm
20	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc ,complete as per the direction of engineer in charge- Data rate	Sqm
21	KSRB 14.6-1 Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver	Sqm
22	Removing and resetting of kerb stones	m
23	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2.4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete.	Nos
24	KSRRB M300-14 Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301	Cum
25	KSRRB 300-58 Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications MORTH / Chapter 3 (Page No 148 , I No.19.64 of KPWD S.R 2015-16)	Sqm
26	KSRRB M400-6.1 Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum
27	KSRRB M400-17 Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification	Cum
28	KSRRB M500-6 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (Page No 160 , I No.21.6 of KPWD S.R 2015-16)	Sqm
29	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH / Chapter 5	Sqm
30	KSRRB 500-7 Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	Sqm
31	KSRRB M500- 15 Providing, laying dense graded bituminous macadam using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No 507	Cum

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
2319.31	14147791	346.94	6100.00	2116334	346.94	16264125	
133.58	8014800	14.53	60000.00	871800	2333.84	8886600	
7812.23	13671403	762.96	1750.00	1335180	896.54	15006583	
238.14	1000188	14.88	4200.00	62496	7827.11	1062684	
375.46	319141	968.78	850.00	823463	1206.92	1142604	
850.95	46802	0.00	55.00	0	375.46	46802	
4098.00	1229400	578 623.00	300.00	173400 ~~186900~~	1473.95	1402800 ~~1416300~~	
3807.75	475969	209.63 211.00	125.00	26203 ~~26375~~	4309.00	502172.50 ~~502344~~	
6929.38	29450	0.00	4.25	0	3807.75	29450	
1603.12	2484836	0.00	1550.00	0	6929.38	2484836	
1486.50	~~2378400~~ 2378544	150.02	1600.00	240026	1753.14	2618426 2618570.50	
6649.40	199482	0.00	30.00	0	1486.50	199482	
50278.02	150834	0.00	3.00	0	6649.40	150834	
56664.21	849963	0.00	15.00	0	50278.02	849963	
946.60	~~7478140~~ 7478203	0.00	7900.00	0	56664.21	~~7478140~~ 7478203	

sl no	Description of work	Unit
32	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509	Cum
33	KSRRB M600-1. Construction of dry lean cement concrete mix M5 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601	Cum
34	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 eaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications.	Cum
35	Providing groove cutting for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.	m
36	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sqm
37	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm
		TOTAL

Certificates:

1 The above work is done satisfactorily
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

AE 02

Previous Measurment		Present Measurement			Total up-to date		Remarks
	cost	Qty	Rate	Cost	Qty	cost	
2019.36	~~19789728~~ 19790120	0.00	9800.00	0	946.60	~~19789728~~ 19790120	
353.42	1342996	37.24	3800.00	141493	2056.60	1484489	
2424.88	14064304	74.47	5800.00	431932	427.89	14496236	
5697.13	683656	0.00	120.00	0	2424.88	683656	
733.20	40326	0.00	55.00	0	5697.13	40326	
1699.98	730991	0.00	430.00	0	733.20	730991	
	~~95388934~~			~~6880280~~		~~102269214~~	

95385356:00

6874827=00

10226183=00

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore